

line 5, "the", second occurrence, has been deleted; and

line 9, "specificity" has been changed to --specificity--.

Page 107, line 28, "intergrated" has been changed to --integrated--.

Page 108, line 9, "aliquote" has been changed to --aliquot--; and

5 line 20, "Contructs" has been changed to --Constructs--.

Page 110, line 20, "analysis" has been changed to --analysis--;

line 33, "senseitivy" has been changed to --sensitivity--; and

line 35, "andGFP" has been changed to --and GFP--.

Page 111, line 24, "cultur," has been changed to --culture,--; and

10 line 26, "ligandwas" has been changed to --ligand was--.

Page 112, line 2 "senseitivy" has been changed to --sensitivity--.

Page 133, line 6 (claim 22), "sySTEm" has been changed to --system--; and

line 23 (claim 27), "Gbg" has been changed to --Gβγ --; and "STEpS" has  
been changed to --steps--.

15 Page 144, line 20 (claim 55), "23" has been changed to --22--.

Page 145, line 25 (claim 61), "23" has been changed to --22--.

Page 148, line 1, "23" has been changed to --22--.

The aforementioned corrections to pages 144, 145 and 148 are evident at least,  
for example, from the specification at page 107, lines 1-31 (Example 12).

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### **Formal Drawings**

Formal drawings in accordance with the guidelines of Rules 11 and 26.3(a) are  
submitted herewith.

# FIG.1

Sequence alignments of N-terminal regions of Ga subunits and N-terminal sequences of GPA<sub>41</sub>- Ga hybrid proteins.

## A. Alignment of GPA1 with Ga Subunits

### GPA1

MGC.TVSTQTIGDESDPFLONKRANDVIEQSLQLEKQDKNEIKLLLLGAGESGKSTVLKQLKLLHQ.....

### Ga5

MGCLGTS..KTEDQRNEEKAQREANKKIEKQLQDKQVYRATHRLLLLGAGESGKSTIVKQMRILHV.....

### Gai2

MGC.TVS.....AEDKAAAEERSKMIDKNLREDGEKAAREVKLLLLGAGESGKSTIVKQMKIIE.....

### Gai3

MGC.TVS.....AEDKAAVERS KMIDRN LREDGEKAAREVKLLLLGAGESGKSTIVKQMKIIE.....

### Ga16

MARSLTRCCPWCLTEDEKAAARVDQEI NRILLEQKKQDRGELKLLLLGPGESGKSTFIKQMRIHG.....

## B. GPA<sub>41</sub>- Ga Hybrids

### GPA<sub>41</sub> - Ga5

MGC.TVSTQTIGDESDPFLONKRANDVIEQSLQLLKORDKNEIKLLLLGAGESGKSTIVKQMRILHV.....

### GPA<sub>41</sub> - Gai2

MGC.TVSTQTIGDESDPFLONKRANDVIEQSLQLEKQDKNEVKLLLLGAGESGKSTIVKQMKIIE.....

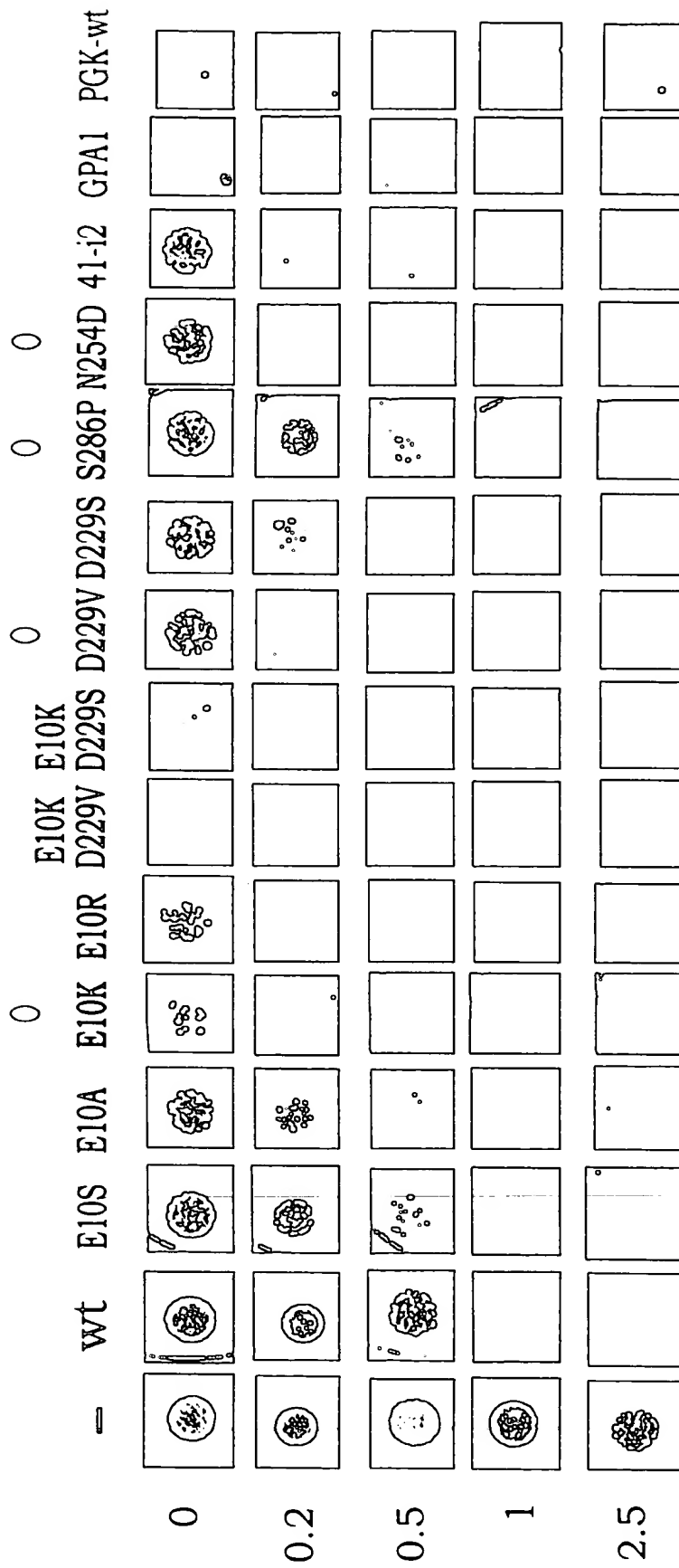
### GPA<sub>41</sub> - Gai3

MGC.TVSTQTIGDESDPFLONKRANDVIEQSLQLEKQDKNEVKLLLLGAGESGKSTIVKQMKIIE.....

### GPA<sub>41</sub> - Ga16

MGC.TVSTQTIGDESDPFLONKRANDVIEQSLQLEKORDKNEIKLLLLGPGESGKSTFIKQMRIHG.....

FIG.2



mM AT  
 Coupling of Gas mutants to yeast G $\beta$ y